

CLAIMS

What I claim is:

- 5 1. An electric power generator, comprising:

a platform member, having a horizontal longitudinal axis and means for changing
of an angle of orientation of the platform member along the horizontal
longitudinal axis;

10 at least one endless belt integrated with the platform member, having at least one
drive wheel and at least one idler wheel, wherein an outer surface of the endless
belt has longitudinally spaced tread members;

means for rotating of the drive wheel of the endless belt;

15 at least one electric generator housing, containing turbine generator, slidably
mounted on the platform member, having at least one axle journalled for rotation
between bearings contained in a electric generator housing, the axle having an
external end protruding from a side of the electric generator housing;

20 a rotor gear coupled to the external end of the axle, wherein the rotor gear is in
mating contact with the tread members of the endless belt.

2. The electric power generator of claim 1 further comprising:
means for routing electricity generated in the electric generator housing to power
the means for rotating of the drive wheel of the endless belt.

5 3. The electric power generator of claim 1 further comprising:
at least one bumper stop mounted on the platform member, wherein the bumper
stop prevents accidental dismounting of the electric generator housing from the
platform member.

10 4. The electric power generator of claim 1 wherein:
a plurality of rollers is positioned on an underside of the electric generator
housing, thereby allowing the electric generator housing to slide on the platform
member.

15 5. The electric power generator of claim 1 further comprising:
a frame member coupled to the electric generator housing, wherein the frame
member is slidably mounted on the platform member.

20 6. The electric power generator of claim 5 wherein:
the platform member has at least one rail for guiding movement of the frame
member slidably mounted on the platform member.

7. The electric power generator of claim 1 wherein:

at least one translational gear is coupled to the rotor gear, wherein the translational gear is coupled to the axle, and wherein rotation of the rotor gear rotates the translational gear and rotation of the translational gear rotates the axle.

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8. A electric power generator, comprising:

a platform member, having a horizontal longitudinal axis and means for changing of an angle of orientation of the platform member along the horizontal longitudinal axis;

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at least one endless belt integrated with the platform member, having at least one drive wheel and at least one idler wheel, wherein an outer surface of the endless belt has longitudinally spaced tread members;

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means for rotating of the drive wheel of the endless belt;

at least two electric generator housings, each containing turbine generators, slidably mounted on the platform member, having at least one joint axle journalled for rotation between bearings contained in electric generator housings, the joint axle having a central external portion located between the electric generator housings;

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a rotor gear coupled to the central external portion of the joint axle, wherein the rotor gear is in mating contact with the tread members of the endless belt.

9. The electric power generator of claim 8 further comprising:

5 means for routing electricity generated in the electric generator housings to power the means for rotating of the drive wheel of the endless belt.

10. The electric power generator of claim 8 further comprising:

10 at least one bumper stop mounted on the platform member, wherein the bumper stop prevents accidental dismounting of the electric generator housings from the platform member.

11. The electric power generator of claim 8 wherein:

15 a plurality of rollers is positioned on an underside of each of the electric generator housings, thereby allowing the electric generator housings to slide on the platform member.

12. The electric power generator of claim 8 further comprising:

20 a frame member coupled to the electric generator housings, wherein the frame member is slidably mounted on the platform member.

13. The electric power generator of claim 12 wherein:

the platform member has at least one rail for guiding movement of the frame member slidably mounted on the platform member.

5 14. The electric power generator of claim 8 wherein:

at least one translational gear is coupled to the rotor gear, wherein the translational gear is coupled to the joint axle, and wherein rotation of the rotor gear rotates the translational gear and rotation of the translational gear rotates the joint axle.

10 15. A method of operation of the electric power generator, which comprises:

changing of an angle of orientation of a platform member along a horizontal longitudinal axis from 0° to an angle greater than 0°;

15 activating of means for rotating of a drive wheel of an endless belt, thereby initiating rotation of the drive wheel and initiating movement of the endless belt;

regulating speed of movement of the endless belt, wherein the endless belt is moving with sufficient speed to substantially maintain position of at least one electric generator housing on the platform member;

20 utilizing at least a portion of the electricity created by the generator to power the means for rotating of the drive wheel of the endless belt;

changing of an angle of orientation of the platform member along the horizontal
longitudinal axis to regulate an electric output of the generator, wherein increase
in the angle of orientation of the platform member along the horizontal
longitudinal axis translates into greater electric output by the generator;

harvesting of the electricity generated by the generator.

16. A method of operation of the electric power generator of claim 13, which further
comprises:

increasing of the weight of the electric generator housing to increase electric
output of the generator.